

DIGITAL PRINTER SERIES 3200

- 32 columns (or less)
- 40, 30, or 20 lines per second
- numeric or alphanumeric
- all solid state; modular construction
- compact 20" deep rack-mounting dimension
- separate printer mechanism and electronics package for convenient local or remote printer operation

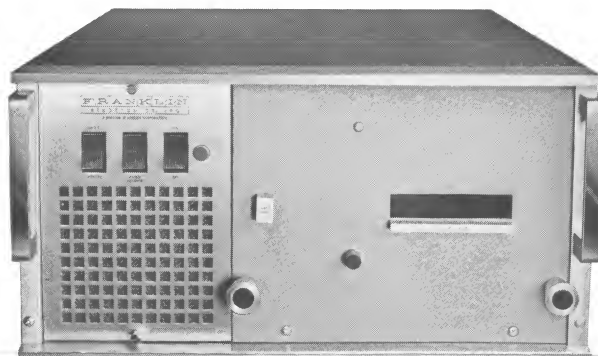
Franklin Series 3200 Digital Printers offer the user a large capacity, versatile data recorder in a compact, easy-to-mount, two-chassis package. The printer mechanism is located in one chassis, and the electronics are located in a matching, second chassis. See dimensional drawings below.

Like all Franklin multiple column printers, Series 3200 digital printers are supplied as complete, operating units. No special auxiliary equipment is required to place the printer in service.

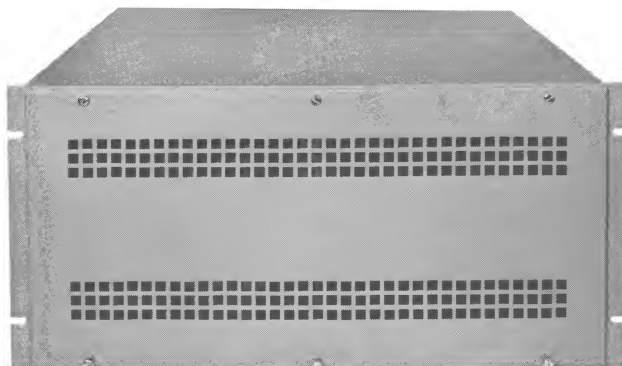
Cabinets are designed for convenient table mounting or for use in standard 19" racks. Cabinets are included as standard items at no additional cost.

All circuitry is solid state. Electrical connections are mechanically shielded to prevent accidental operator contact during paper loading and other normal operating procedures.

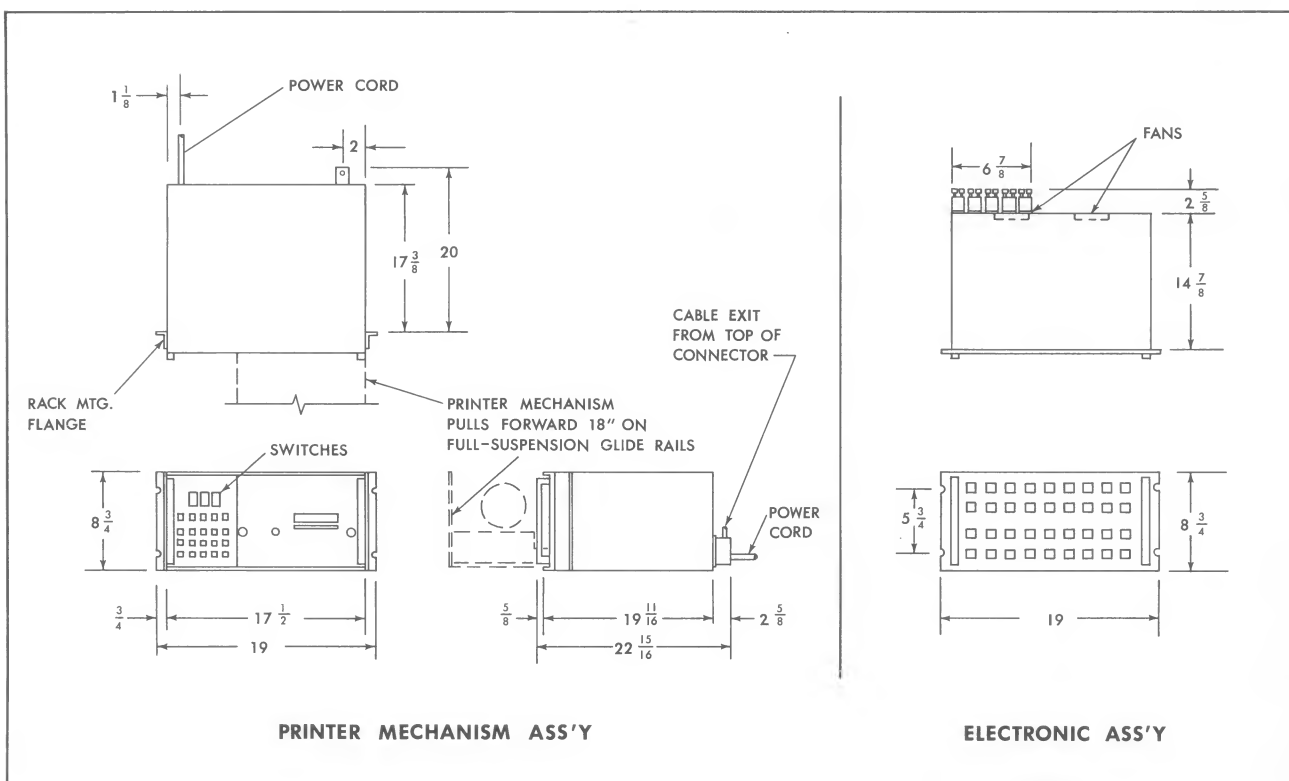
Representative pricing information and specifications are listed on the back of this sheet. Please consult factory for quantity and special discounts.



PRINTER MECHANISM



ELECTRONIC PACKAGE



SPECIFICATIONS / SERIES 3200 DIGITAL PRINTERS

PRINTING RATE

Decimal Printer:

- 40 lines per second. (Print Drum Type 8A-32.)
- 30 lines per second. (Print Drum Type 6A-32.)
- 20 lines per second. (Print Drum Types 6J-32, 6A-32, 8A-32 or 2C-32.)

Alpha-Numeric Printer: (6-wire input.)

- 20 lines per second. (Print Drum Type 2C-32.)

Note: Intermediate speeds as well as lower speeds are available.

NUMBER OF COLUMNS

32 columns. Columns not desired can be eliminated, thus reducing printer cost.

COLUMN AND LINE SPACING

10 columns per inch; 6 lines per inch.

PAPER STOCK

3 $\frac{7}{16}$ " wide x 600' long. Folded paper only.

RIBBON

Silk, inked ribbon traverses printing area at a constant rate. Automatic reversal.

PRINTABLE CHARACTERS (DRUM TYPE DESCRIPTIONS)

Note: For any drum type, character position and sequence is the same in each column.

8A-32 Print Drum: 32 columns of characters. All columns have 12 characters available for printing; 0 through 9, decimal point, and minus sign. Use all 12 characters for synchronous operation. Use any 11 consecutive characters for asynchronous operation.*

6A-32 Print Drum: 32 columns of characters. All columns have 16 characters available for printing; 0 through 9, —, +, •, Ω, ∞, *. Use all 16 characters for synchronous operation. Use any 15 consecutive characters for asynchronous operation.*

6J-32 Print Drum: 32 columns of characters. All columns have 16 characters available for printing 0 through 9, —, ∞, Ω, +, •, *.

Optional 6J-32 drum selections at no extra cost, if specified at time of ordering:

Option 1: 0 through 9, —, +, •, Ω, ∞, *.

Option 2: 0 through 9, •, +, —, A, B, C.

2C-32 Print Drum: 32 columns of characters. All columns have 40 characters available for printing; 0 through 9, A through Z, +, —, *, •. (Straight 6-wire binary only.) With 4-wire BCD input, user may select any 16 consecutive characters for printing in each column.

NOMINAL PRINT CYCLE AT 600 RPM DRUM SPEED

8A-32 Print Drum (40 lines per second): Prints 10 decimal digits in 10.4 milliseconds; provides 14.6 milliseconds idle time for data acquisition.

6A-32 Print Drum (30 lines per second): Prints 10 decimal digits in 10.4 milliseconds; provides 22.6 milliseconds idle time for data acquisition.

6J-32 Print Drum (20 lines per second): Prints 10 decimal digits in 10.4 milliseconds; provides 39.6 milliseconds idle time for data acquisition.

2C-32 Print Drum (20 lines per second): Prints 40 alpha-numeric characters in 41.6 milliseconds; provides 8.4 milliseconds idle time for data acquisition.

* Whichever consecutive characters are selected, the first character printed must have the code for binary zero, with a normal progression thereafter. For a complete discussion of synchronous and asynchronous operation, see any Franklin Electronics Printer Application and Engineering Guide.



E. FOURTH STREET, BRIDGEPORT, PA. 19405 • TEL: 215-272-4800 • TWX: 215-272-8696

DATA INPUT CODES

BCD 8421 standard. Other BCD codes available as options.

BCD LOGIC LEVELS

BINARY NO.	STANDARD	IF SPECIFIED†	SPECIALS (OPTIONAL EXTRA)	
LOGIC 0	0 V	—6 to —30 V	0 V	+7 to +15 V
LOGIC 1	—6 to —30 V	0 V	+7 to +15 V	0 V

† No extra cost.

ZERO SUPPRESSION

Non-print of zeroes in non-significant positions. (Optional extra.)

INPUT CONTROL SIGNAL PROVISIONS

Print on positive pulse (12 V).

Print on negative pulse (12 V).

Print once (Contact closure to ground).

Inhibit print (—12 V).

OUTPUT CONTROL SIGNAL PROVISIONS

Printer recording; hold data (0 V to —12 V or —12 V to 0 V).

Printout complete; gather new data (0 V to —12 V or —12 V to 0 V).

CIRCUITRY

All solid state. Modular.

POWER REQUIREMENTS

105-125 V, 60 cps standard: 6 A max. for 32 columns. Also available for 115 V, 50 cps; 230 V, 50 or 60 cps; or 115 V, 400 cps as options.

MOUNTING

All models in this series are furnished in two separate chassis; the printer mechanism in one chassis and a matching second chassis containing the electronics. Each chassis has a panel height of 8 $\frac{3}{4}$ " for a total panel requirement of 17 $\frac{1}{2}$ ". This split package construction permits mounting in 20" deep racks.

SIZE AND WEIGHT

17 $\frac{1}{2}$ " H x 19" W x 20" D. 115 lbs.

FINISH

Gray crackle with satin finish aluminum handles and trim.

WARRANTY

50 million lines or one year, whichever occurs first.

REPRESENTATIVE PRICE SCHEDULE

Consult factory for special and quantity discounts.

†BASIC MODEL NO.	MAXIMUM NO. OF COLUMNS	PRINT RATE IN LINES PER SEC.	PRINTABLE CHARACTERS (SEE SPECS)	UNIT PRICE	
				BASIC PRINTER	ADD PER COLUMN
3220D	32	20	NUMERIC	\$3200	\$ 80
3230D	32	30	NUMERIC	3200	80
3240D	32	40	NUMERIC	3200	80
3220A	32	20	ALPHA-NUMERIC	3250	100

† Other models and specials are available.

A DIVISION OF ANELEX CORPORATION



DIGITAL PRINTER SERIES 2200

- 22 columns (or less)
- 40, 30, or 20 lines per second
- numeric or alphanumeric
- all solid state; modular construction
- versatile rack or table mounting



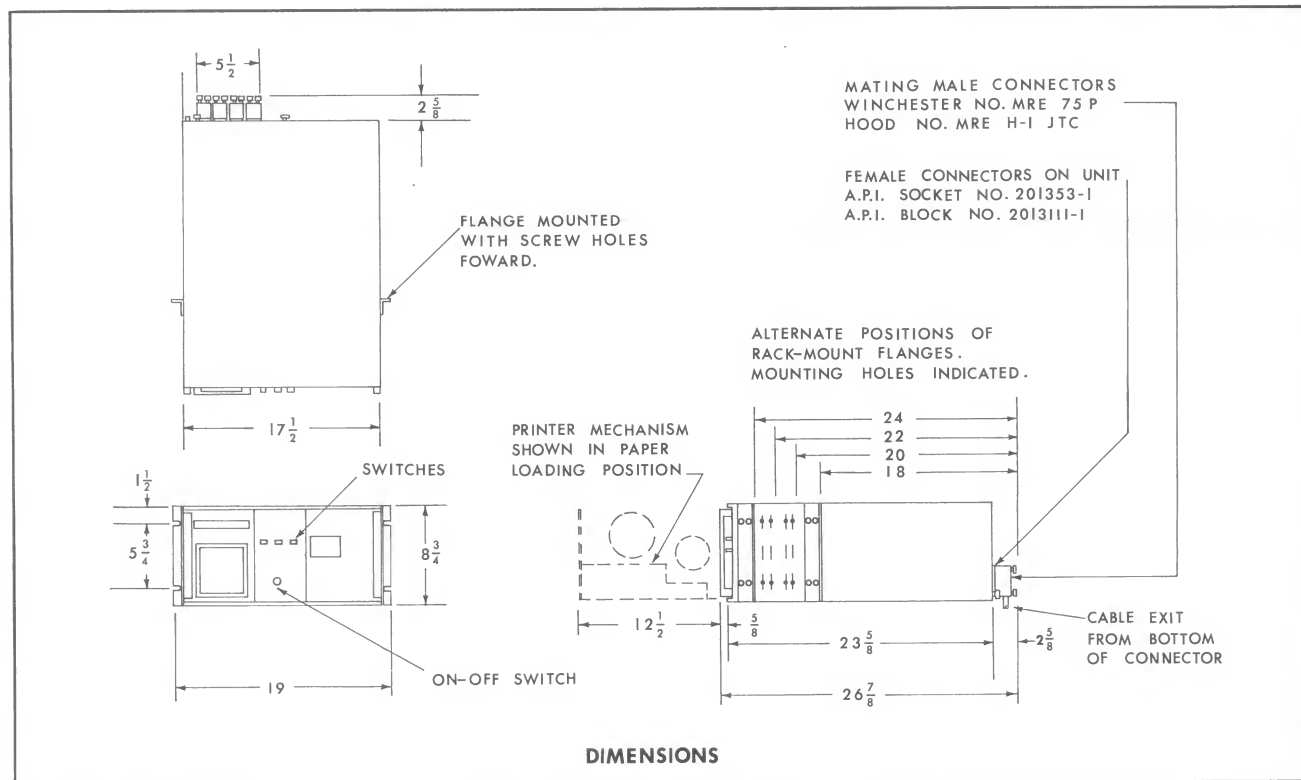
Franklin Series 2200 Digital Printers are high-speed, parallel-entry recorders with a 22-column capacity. They incorporate many of the outstanding features of the original Franklin Printer, such as high speed and low maintenance; yet they have an increased column capacity and are, feature for feature, the most economical printers available.

The printer is supplied complete, ready for operation as illustrated. Included are electronics, modular solid-state power supply, power cable, inked ribbon, and paper. The complete printer is mounted in an attractive gray crackle finish cabinet with aluminum trim. Adjustable mounting brackets, as shown in the dimensional drawing below, allow for mounting in standard 19-inch racks of various depths. The mounting brackets can be removed for table mounting. There is no extra charge for the cabinet.

Paper loading is accomplished safely and easily. The printer mechanism pulls forward on full-suspension, ball-bearing glide rails so that the complete mechanism is accessible. Cantilever mounting of drum, ribbon, and paper-spools make paper loading a simple operation, requiring only a few seconds.

Under typical operating conditions, maintenance is limited to (1) periodic removal of any accumulated dust or lint, (2) cleaning the reusable air-filter, and (3) applying two or three drops of machine oil to the drum-motor bearings every 50 million lines or yearly. All other friction points are permanently lubricated.

Representative pricing information and specifications are listed on the back of this sheet. Please consult factory for quantity and special discounts.



SPECIFICATIONS / SERIES 2200 DIGITAL PRINTERS

PRINTING RATE

Decimal Printer:

- 40 lines per second. (Print Drum Type 8A-22.)
- 30 lines per second. (Print Drum Type 6A-22.)
- 20 lines per second. (Print Drum Types 6J-22, 6A-22, 8A-22 or 2C-22.)

Alpha-Numeric Printer: (6-wire input.)

- 20 lines per second. (Print Drum Type 2C-22.)

Note: Intermediate speeds as well as lower speeds are available.

NUMBER OF COLUMNS

22 columns. Columns not desired can be eliminated, thus reducing printer cost.

COLUMN AND LINE SPACING

- 10 columns per inch; 6 lines per inch.

PAPER STOCK

2 $\frac{3}{4}$ " wide x 200' long. As specified with order, printer will accept either roll or folded paper stock. Printer has provisions for quickly converting from one paper stock to the other by means of a simple kit. Kit is optional extra.

RIBBON

Silk, inked ribbon traverses printing area at a constant rate. Automatic reversal.

PRINTABLE CHARACTERS (DRUM TYPE DESCRIPTIONS)

Note: For any drum type, character position and sequence is the same in each column.

8A-22 Print Drum: 22 columns of characters. All columns have 12 characters available for printing; 0 through 9, decimal point, and minus sign. Use all 12 characters for synchronous operation. Use any 11 consecutive characters for asynchronous operation.*

6A-22 Print Drum: 22 columns of characters. All columns have 16 characters available for printing; 0 through 9, —, +, •, Ω, ∞, *. Use all 16 characters for synchronous operation. Use any 15 consecutive characters for asynchronous operation.*

6J-22 Print Drum: 22 columns of characters. All columns have 16 characters available for printing 0 through 9, —, ∞, Ω, +, •, *.

Optional 6J-22 drum selections at no extra cost, if specified at time of ordering:

Option 1: 0 through 9, —, +, •, Ω, ∞, *.

Option 2: 0 through 9, •, +, —, A, B, C.

2C-22 Print Drum: 22 columns of characters. All columns have 40 characters available for printing; 0 through 9, A through Z, +, —, *, •. (Straight 6-wire binary only.) With 4-wire BCD input, user may select any 16 consecutive characters for printing in each column.

NOMINAL PRINT CYCLE AT 600 RPM DRUM SPEED

8A-22 Print Drum (40 lines per second): Prints 10 decimal digits in 10.4 milliseconds; provides 14.6 milliseconds idle time for data acquisition.

6A-22 Print Drum (30 lines per second): Prints 10 decimal digits in 10.4 milliseconds; provides 22.6 milliseconds idle time for data acquisition.

6J-22 Print Drum (20 lines per second): Prints 10 decimal digits in 10.4 milliseconds; provides 39.6 milliseconds idle time for data acquisition.

2C-22 Print Drum (20 lines per second): Prints 40 alpha-numeric characters in 41.6 milliseconds; provides 8.4 milliseconds idle time for data acquisition.

DATA INPUT CODES

BCD 8421 standard. Other BCD codes available as options.

BCD LOGIC LEVELS

BINARY NO.	STANDARD	IF SPECIFIED†	SPECIALS (OPTIONAL EXTRA)	
LOGIC 0	0 V	—6 to —30 V	0 V	+7 to +15 V
LOGIC 1	—6 to —30 V	0 V	+7 to +15 V	0 V

† No extra cost.

ZERO SUPPRESSION

Non-print of zeroes in non-significant positions. (Optional extra.)

INPUT CONTROL SIGNAL PROVISIONS

- Print on positive pulse (12 V).
- Print on negative pulse (12 V).
- Print once (Contact closure to ground).
- Inhibit print (—12 V).

OUTPUT CONTROL SIGNAL PROVISIONS

- Printer recording; hold data (0 V to —12 V or —12 V to 0 V).
- Printout complete; gather new data (0 V to —12 V or —12 V to 0 V).

CIRCUITRY

- All solid state. Modular.

POWER REQUIREMENTS

105-125 V, 60 cps standard; 4 A max. for 22 columns. Also available for 115 V, 50 cps; 230 V, 50 or 60 cps; or 115 V, 400 cps as options.

MOUNTING

Adjustable to fit any standard 19" rack with a depth of at least 18". For a flush installation, a depth of 26" behind panel is required. In shallow racks, front of printer protrudes 2" to 6", depending upon rack depth available. Removable mounting ears provide attractive table mounting.

SIZE AND WEIGHT

- 8 $\frac{3}{4}$ " H x 19" W x 23 $\frac{1}{2}$ " D. 104 lbs.

FINISH

Gray crackle with satin finish aluminum handles and trim.

WARRANTY

- 50 million lines or one year, whichever occurs first.

REPRESENTATIVE PRICE SCHEDULE

Consult factory for special and quantity discounts.

†BASIC MODEL NO.	MAXIMUM NO. OF COLUMNS	PRINT RATE IN LINES PER SEC.	PRINTABLE CHARACTERS (SEE SPECS)	UNIT PRICE	
				BASIC PRINTER	ADD PER COLUMN
2220D	22	20	NUMERIC	\$2700	\$ 80
2230D	22	30	NUMERIC	2800	80
2240D	22	40	NUMERIC	2850	80
2220A	22	20	ALPHA-NUMERIC	2850	100

† Other models and specials are available.

* Whichever consecutive characters are selected, the first character printed must have the code for binary zero, with a normal progression thereafter. For a complete discussion of synchronous and asynchronous operation, see any Franklin Electronics Printer Application and Engineering Guide.



E. FOURTH STREET, BRIDGEPORT, PA. 19405 • TEL: 215-272-4800 • TWX: 215-272-8696

A DIVISION OF ANELEX CORPORATION



DIGITAL PRINTER SERIES 1600

- 16 columns (or less)
- 40, 30, or 20 lines per second
- numeric
- all solid state; modular construction



Franklin Series 1600 Digital Printers are high-speed, parallel-entry recorders with a 16 column capacity. The printer mechanism is built around a monolithic, main-body casting, resulting in high mechanical stability and low maintenance.

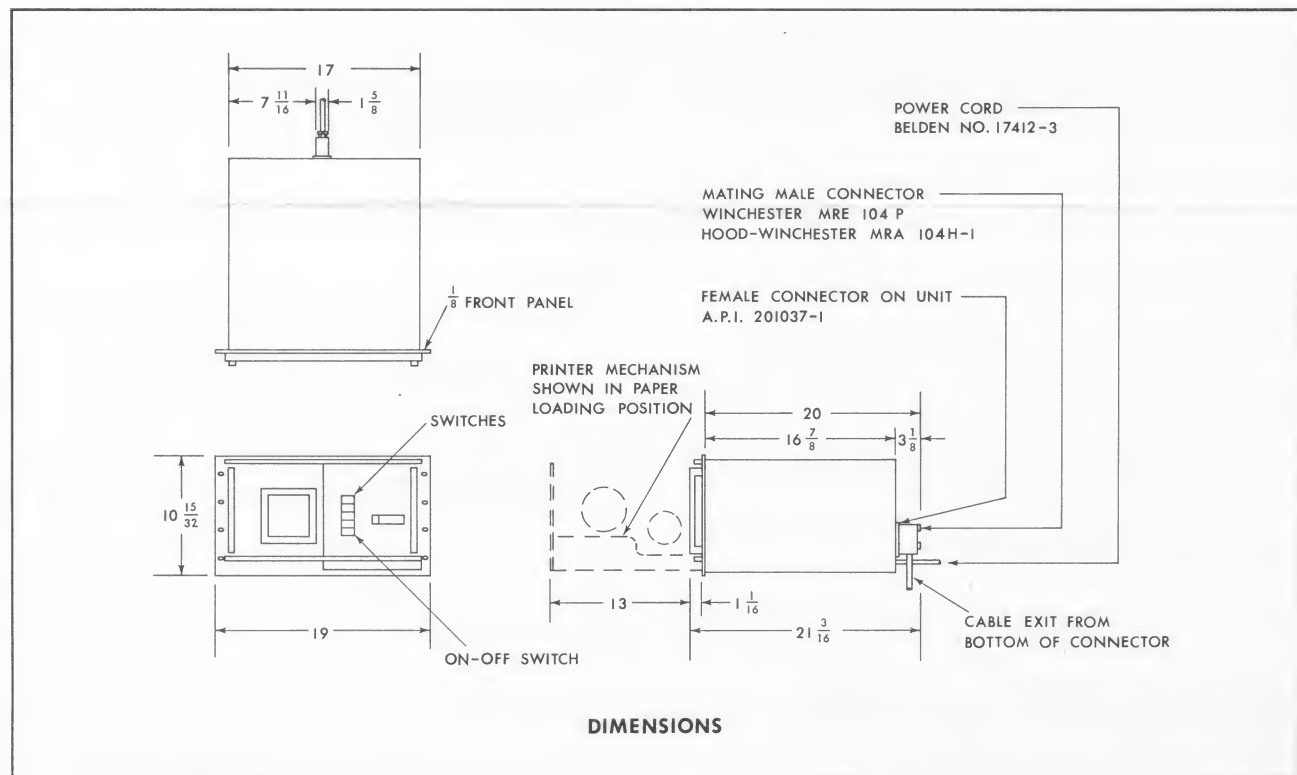
Under typical operating conditions, maintenance is limited to (1) periodic removal of any accumulated dust or lint, (2) cleaning the reusable air filter and (3) applying two or three drops of machine oil to the drum motor bearings every 50 million lines or yearly.

Paper loading is accomplished easily in all Franklin Printers. The printer mechanism pulls forward on full-sus-

pension, ball-bearing glide rails. The print drum is cantilever mounted so that paper can be slipped into position without the need for threading. Paper may be roll or folded.

The printer is supplied ready for operation as illustrated. It includes all electronics, integral power supply module, handsome cabinet for table or rack mounting, line cord, inked ribbon and paper. There are no extra charges for any of these items.

Representative pricing information and specifications are listed on the back of this sheet. Please consult factory for quantity and special discounts.



SPECIFICATIONS / SERIES 1600 DIGITAL PRINTERS

PRINTING RATE

Decimal Printer:

- 40 lines per second (Print Drum Type 8A-16)
- 30 lines per second (Print Drum Type 6A-16)
- 20 lines per second (Print Drum Type 6J-16)

Note: Intermediate speeds as well as lower speeds are available.

NUMBER OF COLUMNS

16 columns. Columns not desired can be eliminated, thus reducing printer cost.

COLUMN AND LINE SPACING

10 columns per inch; 6 lines per inch.

PAPER STOCK

21 $\frac{1}{4}$ " W. x 200' L. Printer accepts either roll or folded stock.

RIBBON

Silk, inked ribbon traverses printing area at a constant rate. Automatic reversal. (A 20-line per second printer with an 8A-16 print drum is also available for use with self-impression impact paper, thus eliminating ribbon mechanism and reducing printer cost. Note that the usual drum speed of 600 rpm is reduced to 300 rpm in this configuration.)

PRINTABLE CHARACTERS (DRUM TYPE DESCRIPTIONS)

8A-16 Print Drum: 16 columns of characters. All columns have 12 characters available for printing; 0 through 9, decimal point, and minus sign. Use all 12 characters for synchronous operation. Use any 11 consecutive characters for asynchronous operation.*

6A-16 Print Drum: 16 columns of characters. All columns have 16 characters available for printing; 0 through 9, -, +, •, Ω, ~, *. Use all 16 characters for synchronous operation. Use any 15 consecutive characters for asynchronous operation.*

6J-16 Print Drum: 16 columns of characters. All columns have 16 characters available for printing 0 through 9, -, ~, Ω, +, •, *.

Optional 6J-16 drum selections at no extra cost, if specified at time of ordering:

Option 1: 0 through 9, -, +, •, Ω, ~, *.

Option 2: 0 through 9, •, +, -, A, B, C.

CYCLE (PRINT TIME) AT 600 RPM DRUM SPEED

8A-16 Print Drum (40 lines per second): Prints 10 decimal digits in 10.4 milliseconds; provides 14.6 milliseconds idle time for data acquisition.

6A-16 Print Drum (30 lines per second): Prints 10 decimal digits in 10.4 milliseconds; provides 22.6 milliseconds idle time for data acquisition.

6J-16 Print Drum (20 lines per second): Prints 10 decimal digits in 10.4 milliseconds; provides 39.6 milliseconds idle time for data acquisition.

*For a complete discussion of synchronous and asynchronous operation, see any Franklin Electronics Printer Application and Engineering Guide.



E. FOURTH STREET, BRIDGEPORT, PA. 19405 • TEL: 215-272-4800 • TWX: 215-272-8696

A DIVISION OF ANELEX CORPORATION



DATA INPUT CODES

BCD 8421 standard. Other BCD codes available as optional.

BCD LOGIC LEVELS

BINARY NUMBER	STANDARD	SPECIALS (OPTIONAL EXTRA)		
LOGIC 0	0 V	+6 to +15 V	0 V	-6 to -30 V
LOGIC 1	-6 to -30 V	0 V	+6 to +15 V	0 V

ZERO SUPPRESSION

Non-print of zeroes in non-significant position. (Optional extra.)

INPUT CONTROL SIGNAL PROVISIONS

- Print on positive pulse.
- Print on negative pulse.
- Print once.
- Inhibit print.
- Enable signal.

OUTPUT CONTROL SIGNAL PROVISIONS

- Printer recording; hold data.
- Printout complete; gather new data.

CIRCUITRY

All solid state. Modular.

POWER REQUIREMENTS

105-125 V, 60 cps standard; 4 A max. for 16 columns. Also available for 115 V, 50 cps, and 230 V, 50 or 60 cps. 20 lps printer using action paper also available with 115 V 400 cps input.

MOUNTING

Standard 19" rack, with a depth of at least 18" (or table mounting.)

SIZE AND WEIGHT

8 $\frac{3}{4}$ " H x 19" W x 20" D. 104 lbs.

FINISH

Gray crackle with satin finish aluminum handles and trim.

WARRANTY

50 million lines or one year, whichever occurs first.

REPRESENTATIVE PRICE SCHEDULE

Consult factory for special and quantity discounts.

BASIC MODEL NO.	MAXIMUM NO. OF COLUMNS	PRINTABLE CHARACTERS (SEE SPECS)	PRINT RATE IN LINES PER SEC.	UNIT PRICE	
				BASIC PRINTER	ADD PER COLUMN
1600-20	16	NUMERIC	20	\$1250	\$75
1600-30	16	NUMERIC	30	\$1550	\$75
1600-40	16	NUMERIC	40	\$1750	\$75

†Other models and specials are available.



E. Fourth Street, Bridgeport, Penna. 19405 • TEL: 215-272-4800 • TWX: 215-272-8696

October 3, 1966

Gentlemen:

If you need a Digital Printer, Franklin probably has one that will meet your exact requirements. Here are some of the benefits that a Franklin Printer will be to you.

1. Reduce Costs - There are now six basic Franklin Printers; one in almost every price range. Both the initial cost and the cost-in-use of these Printers are less than others that you may consider. For example, our new Model 120A costs less than \$400.00.
2. Improved Reliability - One of our customers recently determined that the calculated MTBF of our standard commercial Series 1200 Printer is greater than 6000 hours. This means years of trouble-free performance to you. We'll send you a copy of this MTBF report upon request.
3. Reduce Maintenance - All Franklin Printers work on the same basic principle and use the same basic parts. Our warranty "--- 50 million lines of print--two drops of oil ---" apply to every printer that we make.

We have included Engineering data sheets on our Series 1600, 2200 and 3200 Printers for your files. You may use the attached return card to request literature on any other Franklin Printers that may interest you. If we can help you in any other way, please don't hesitate to call on us.

Yours very truly,

Thomas J. Keffer

Thomas J. Keffer
Vice President Sales

TJK:gw
Encl.



E. Fourth Street, Bridgeport, Penna. 19405 • TEL: 215-272-4800 • TWX: 215-272-8696

October 10, 1966

Gentlemen:

If you need a Digital Printer, Franklin probably has one that will meet your exact requirements. Here are some of the benefits that a Franklin Printer will be to you.

1. Reduce Costs - There are now six basic Franklin Printers; one in almost every price range. Both the initial cost and the cost-in-use of these printers are less than others that you may consider. For example, our new Model 120A costs less than \$400.00.
2. Improved Reliability - One of our customers recently determined that the calculated MTBF of our standard commercial Series 1200 Printer is greater than 6000 hours. This means years of trouble-free performance to you. We'll send you a copy of this MTBF report upon request.
3. Reduce Maintenance - All Franklin Printers work on the same basic principle and use the same basic parts. Our warranty "--- 50 million lines of print -- two drops of oil ---" applies to every printer that we make.

We have included Engineering data sheets on our Series 1600, 2200 and 3200 Printers for your files. You may use the attached return card to request literature on any other Franklin Printers that may interest you. If we can help you in any other way, please don't hesitate to call on us.

Yours very truly,

Thomas J. Keffer
Vice President Sales

TJK:gw
Encl.

\$400.

BULLETIN 2045

MODEL 120A

STRIP PRINTER



- Low cost
- Full alpha-numeric
- 1200 characters per minute
- 3" x 6 $\frac{1}{4}$ " x 8 $\frac{5}{8}$ "
- Less than 5 lbs.

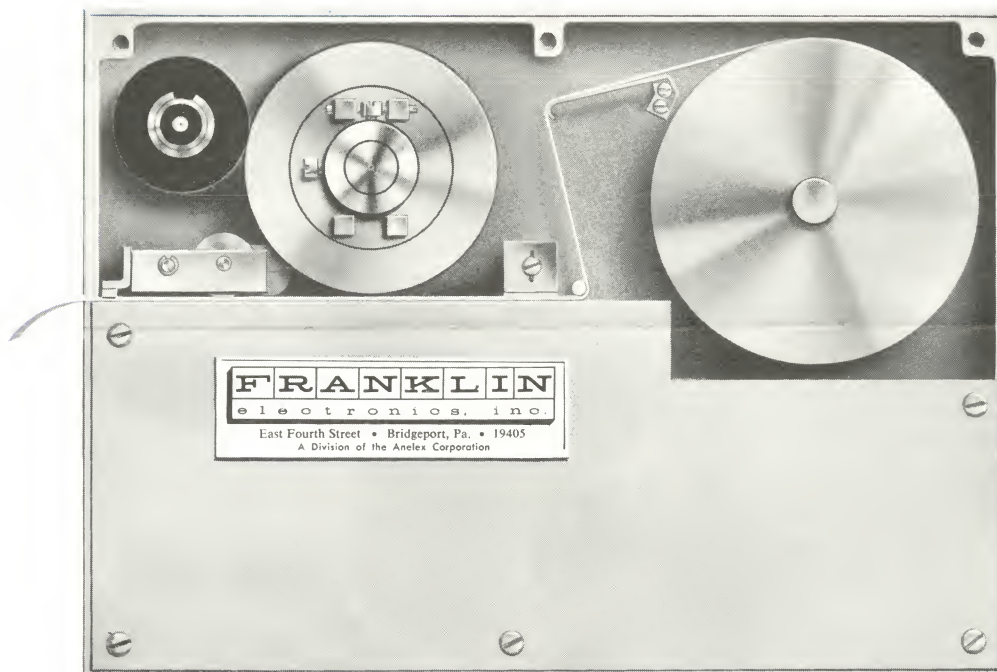
THERE IS NOTHING YOU CAN'T PRINT ON A MODEL 120A...ABSOLUTELY NOTHING...

FRANKLIN
electronics, inc.

A DIVISION OF ANELEX CORPORATION

FRANKLIN

A DIVISION OF ANELEX CORPORATION



Model 120A Strip Printer . . .

a versatile, low-cost strip printer for computer and instrumentation engineers

The Franklin Model 120A Strip Printer fills the need for a low-cost monitoring recorder. It is for use in any system where a direct readout of digitally-coded information is desired, but where the cost of a large size, multiple-column printer is prohibitive.

The Model 120A provides a full complement of characters—the alphabet, numerals, punctuation marks and various signs and symbols. (See strip at bottom of these pages for characters and sequence.)

As described in this bulletin, the Model 120A is furnished complete, ready for operation from the user's power supply and electronics. Where desired, Franklin Electronics can furnish the power supply and electronics.

Printout of any character takes place with the application of a 26 V pulse when the proper character is in position with respect to the print hammer. Synchronizing pulses, to indicate character position, are provided by a reluctance pick-up. The absence of a pulse, signals the beginning of the string of character pulses.

The use of an inking roller is an optional feature which eliminates the need for an inked ribbon and the associated ribbon-takeup and rewind mechanism. Its omission permits the convenient use of self-inking "Action" or "NCR" paper where desired.

Special versions of the Model 120A will be quoted for systems manufacturers to meet their special needs.

! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @

SPECIFICATIONS

MODEL 120A STRIP PRINTER

PRINTING RATE

20 characters per second, average.

VARIETY OF CHARACTERS

Choice of any 63 of 64 characters consisting of complete alphabet; numerals 0 through 9; various punctuation marks, signs, and symbols.

SEQUENCE OF CHARACTERS ON DRUM

The characters are arranged on the print drum so that they proceed through the print position in the order used in the ASCII code. This order is shown on the tape stretching across the bottom of these pages.

CHARACTER SPACING AND SIZE

10 characters per inch. Letters of the alphabet are all capitals; characters printed are .100" high x .065" wide.

READOUT

Characters print with vertical axis perpendicular to longitudinal axis of paper strip.

PAPER STOCK

1/2" wide roll approx. 200 ft. long. Roll measures 3" O.D. x 7/16" I.D. Uses standard paper, or self-inking impact paper such as "Action" or "NCR."

INKING METHOD

None required with self-inking impact paper. Ink-impregnated rubber roller for standard paper is optional extra.

OUTPUT SIGNALS

Character Position: Reluctance pickup gives one pulse per character. Pulse train is a modified sine wave $2.0\text{ V} \pm \frac{1}{2}\text{ V}$ peak-to-peak with 0.782 ms period. Source impedance, 98 ohms.

Start of Character Sequence (Sync): Missing 64th pulse in character train. Sync pulse may be shifted in user's electronics to eliminate printing of any one of the 64 characters engraved on the print drum.

Paper Out (Optional Extra): Contact closure.

POWER REQUIREMENTS

Print Drum Drive: 105-125 V, 60 cps, single phase, 0.2 A.

Hammer Drive (Print Solenoid): Non-ringing 26 V pulse, 3.5 A, 1.3 ms duration, two-wire ungrounded.

Paper Shift Drive: Non-ringing 26 V pulse, 3.5 A, 3-8 ms duration (adjustable), two-wire ungrounded.

MOUNTING

Side Mounting: Four No. 10-32 tapped holes on $7\frac{1}{16}" \times 5\frac{1}{2}"$ centers.

Bottom Mounting: Four clearance holes for No. 10 screws on $1\frac{1}{2}" \times 6"$ centers.

Orientation: Printer is designed for mounting vertically as pictured. While the printer will operate if mounted lying on its back, parts wear will be somewhat greater than in the usual vertical mounting.

DIMENSIONS AND WEIGHT

8 5/8" D x 3" W x 6 1/4" H. Less than 5 lbs.

ENGINEERING ASSISTANCE

Franklin Electronics manufactures Digital Printers in a wide variety of configurations. Where unusual applications are involved, Franklin Electronics will be pleased to suggest various solutions and alternatives.

The back cover of this bulletin lists the basic characteristics of various series of Franklin Digital Printers. Within each series, a broad range of characteristics is available. For complete information on any printer type, please request the referenced bulletin.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ↑ →

QUICK REFERENCE GUIDE TO FRANKLIN DIGITAL PRINTERS

SERIES 1200 GENERAL-PURPOSE DIGITAL PRINTERS

12 Columns • 20 Lines Per Sec. • Numeric



A low-cost favorite of the OEM. Furnished complete with all electronics and power supply. Solid-state, modular construction. Operates from 4-wire, bit-parallel, column-parallel binary or BCD inputs. Accepts 8421, 4221, or 2421 input without need for electrical changes of any kind. Rugged construction includes monolithic, main-body casting. Fits standard 19" rack or can be used on table. Panel height 10½". Depth 19⅝". Weight 85 lbs. See Bulletin 2050A.

SERIES 2200 HIGH-VERSATILITY DIGITAL PRINTERS

22 Columns • 40 Lines Per Sec. • Numeric or Alpha-Numeric



A high capacity, versatile printer. Furnished complete with power supply and all electronics for 4- or 6-wire parallel data input. All solid-state modular construction. Print rate is 40 lines per second numeric and 20 lines per second alpha-numeric. Higher, lower and intermediate print rates available, depending upon user's requirements. Mounts in standard 19" rack or can be table mounted. Panel height only 8¾". Adjustable mounting brackets for rack depths from 18" to 26". Flush mounting requires 26". Weight is 104 lbs. See Bulletin 2302.

SERIES 1000 HIGH-PERFORMANCE DIGITAL PRINTERS

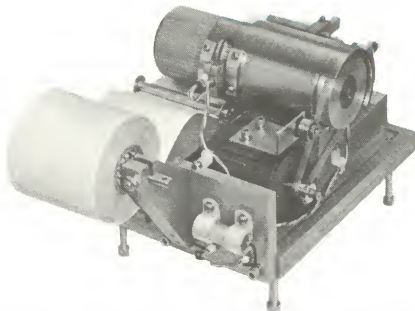
20 Columns • 40 Lines Per Sec. • Numeric and Alpha-Numeric



Series 1000 Printers offer the ultimate in printer performance and versatility. They are the standard by which many manufacturers judge printer performance. They accept binary, BCD, ten-line, and mixed-code inputs. They operate synchronously or asynchronously without loss of print rate. Although nominally rated at 40 lines per second, models are available for use at higher or lower print rates. Dimensions are 8¾" panel height x 19" W x 23½" D. Movable mounting brackets provide for mounting in shallow 18" racks. Weight is 104 lbs. See Bulletin 2301.

SERIES M-1000 MILITARIZED DIGITAL PRINTERS

40 Lines Per Sec. • Numeric and Alpha-Numeric



Ruggedized, militarized digital printer. Wide variety of models customarily altered to meet user's specific requirements; includes parallel or serial entry units. All types of input codes available. Number of columns can vary up to 24. Furnished with or without electronics and power supply. Has many of the characteristics of the Series 1000 printers. See Bulletin MIL.

FRANKLIN
electronics, inc.

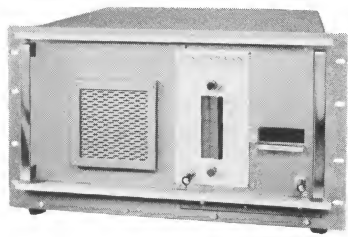
E. FOURTH STREET, BRIDGEPORT, PA. 19405 • TEL: 215-272-4800 • TWX: 215-272-8696

A DIVISION OF ANELEX CORPORATION

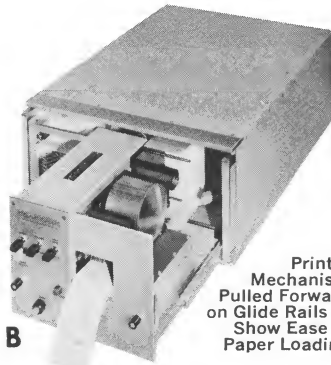


Franklin Electronics DIGITAL PRINTERS

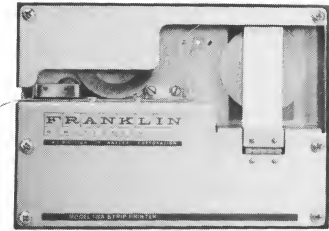
Industry's most complete line of data recorders



A



Printer Mechanism Pulled Forward on Glide Rails to Show Ease of Paper Loading



C

Franklin Electronics, Inc. offers the widest range of high-speed digital printers available anywhere. Moreover, they are the most economical high-speed recorders available, despite the fact that their appearance and reliability suggest a high cost.

The prices shown in the chart below are straight-forward, giving the cost for a complete operating printer, ready to record from your digital system. Included are cabinet, power supply, logic circuits, etc. There are no special charges except, of course, where special modifications are required.

All printers are normally furnished for 110V, 60cps

operation. Other voltages and frequencies are available as options. Customary data input is bit parallel, column parallel, straight binary code. Inputs such as 10-line, 4221, 2421, and mixed codes can also be furnished. Please refer to the notes under the chart, since some models accept more than one code, without the need for modification and at no extra cost.

Also please note that the Model 120A is a strip printer and is furnished without electronics. See Note 3.

BRIEF SPECIFICATIONS

BASIC MODEL NO.	TYPICAL APPEARANCE SEE ILLUST.	MAXIMUM NO. OF COLUMNS	PRINT RATE IN LINES PER SEC.	PRINTABLE CHARACTERS		1 DIMENSIONS IN INCHES			WEIGHT IN LBS. (APPROX.)	SEE NOTE	2 UNIT PRICE	
				NUMERIC	ALPHA-NUMERIC	W (RACK)	H	D			BASIC PRINTER	ADD PER COL.
120A	C	N/A	20		✓	3	6¼	8⅝	5	3	\$ 395	N/A
1200	A	12	20	✓		19	10½	19⅞	85	4	1050	\$75
1600	A	16	20	✓		19	10½	19⅞	90	—	1250	75
1600	A	16	30	✓		19	10½	19⅞	90	—	1550	75
1600	A	16	40	✓		19	10½	19⅞	90	—	1750	75
1000	B	20	20	✓		19	8¾	24	105	5	2504	112
1000	B	20	30	✓		19	8¾	24	105	5	2754	112
1000	B	20	40	✓		19	8¾	24	105	5	2754	112
1000	B	20	20		✓	19	8¾	24	105	5	3194	120
2200	B	22	20	✓		19	8¾	24	105	—	2700	80
2200	B	22	30	✓		19	8¾	24	105	—	2800	80
2200	B	22	40	✓		19	8¾	24	105	—	2850	80
2200	B	22	20		✓	19	8¾	24	105	—	2850	100
3200	B	32	20	✓		19	17½	20	115	6	3200	80
3200	B	32	30	✓		19	17½	20	115	6	3200	80
3200	B	32	40	✓		19	17½	20	115	6	3200	80
3200	B	32	20		✓	19	17½	20	115	6	3250	100
M-1000	—	—	40	✓	✓	—	—	—	—	7	—	—

NOTES

1. Depth dimension includes connectors and is the maximum rack depth required. Models 1000 and 2200 have movable mounting ears for mounting in shallow racks where depth is limited.

2. Prices are shown for single units. Consult factory for quantity and special discounts.

3. Model 120A is a strip printer. Print rate is more accurately described as 20 characters per second. Characters are printed with their vertical axis perpendicular to the long axis of a ½" wide paper tape. Printer mechanism is complete with sync- and character-pulse generator, drum and paper drive etc. Electronics are not included.

4. Series 1200 Digital Printers will accept 8421, 4221, or 2421 BCD inputs, without the need for making electrical changes. Code changes are accomplished mechanically by simply changing the print-drum indexing.

5. Series 1000 Digital Printers are available with straight binary or binary coded decimal inputs, with 10-line code, or with different codes in different columns.

6. All models in the 3200 Series are furnished in two separate chassis; the printer mechanism in one chassis as illustrated at "B" and a matching second chassis containing the electronics. Each chassis has a panel height of 8¾" for a total panel height of 17½". This split-package construction permits mounting in 20" deep racks.

7. Specifications for military type printers are necessarily incomplete. Most applications require a special design. For further information please request Franklin's MIL Printer Bulletin. This bulletin gives a complete description of Franklin's military type printers.



E. FOURTH STREET, BRIDGEPORT, PA. 19405 • TEL: 215-272-4800 • TWX: 215-272-8696

A DIVISION OF ANELEX CORPORATION

